

(m) denotes methylation

FIG. 1

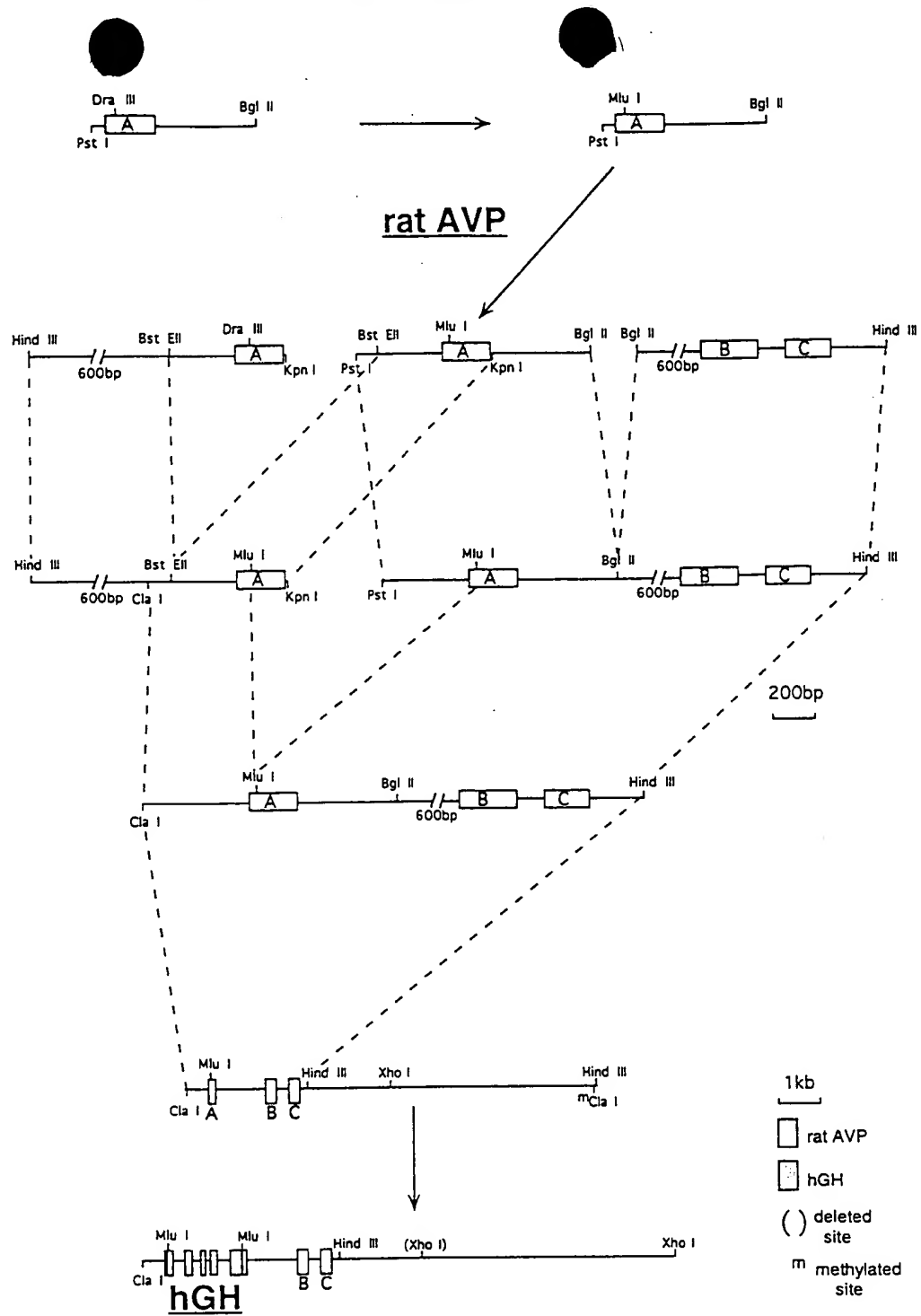


FIG. 2
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rat AVP/OXT gene locus

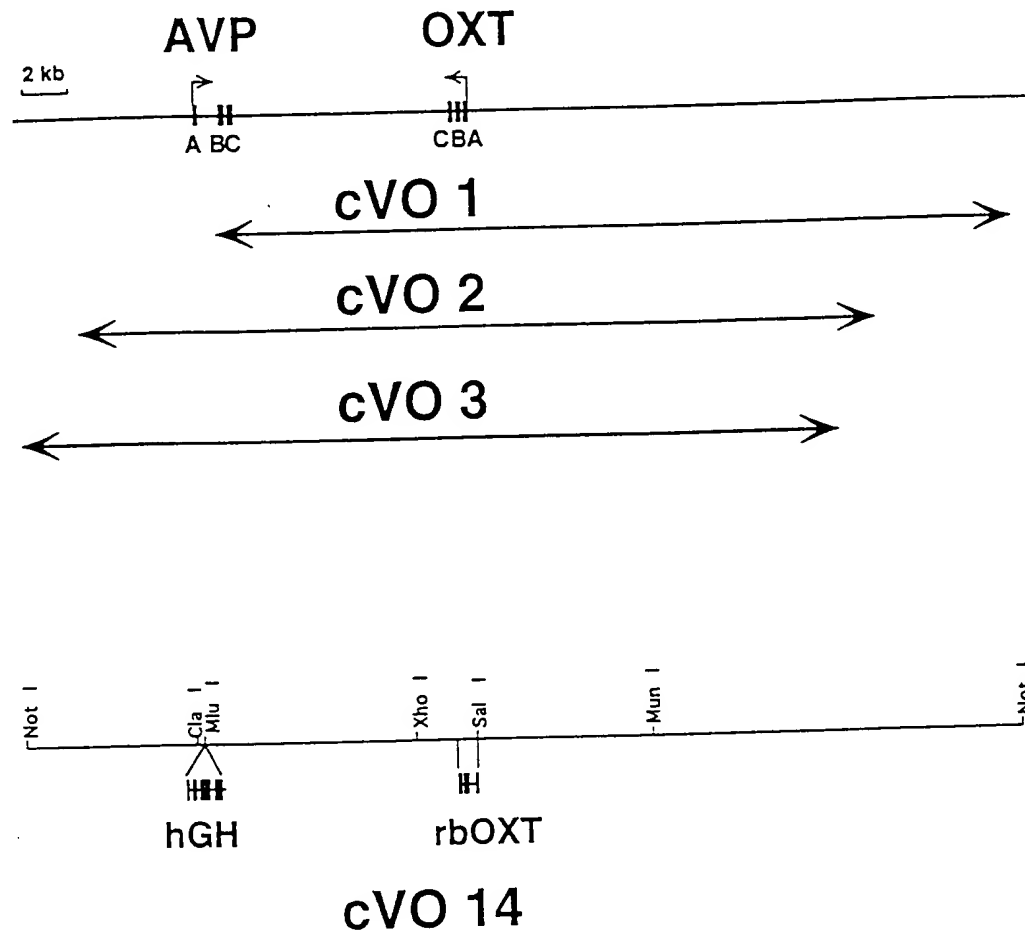


FIG. 4

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'TATA-BOX'



AGACATAAAAAGGTCGGTC

MOUSE

AGGCATAAAAAGGCCAGGC

HUMAN

CGGGCTTAAAAGGCCAGAC

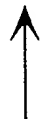
COW

AGGCATAAAAAGGTCGGTC

RAT

AGGCATAAAAAGTCGGTC

cVO 14



Base Substitution

FIG. 5

Figure 6

5'OT-EST PROTEIN OF DIFFERENT SPECIES

Mouse

MLRALNRLAQRPGDRPPTPLLLPVRGRKTRHDPPAKSKVGRVQTPPAVDPAEFFVLTERY
GQYRETVRALRLEFTLDVRRKLHEARAGVLAERKAQQAITEHRELMAWNNDENRRMQELR
IARLQLEAQAQEVQKAEARQRAQEEQAWVQLKEQEVCLKQEEAKNFITRENLEARIEEA
LDSPKSYNWAVTKEGQVVRN

Rat

MLRALNRLAARPGGQPPTLLLLPVRGRKTRHDPPAKSKVGRVKMPPAVDPAELFVLTERY
RQYRETVRALRREFTLEVRGKLHEARAGVLAERKAQEAIREHQELMAWNREENRRLQELR
IARLQLEAQAQELRQAEVQAQRAQEEQAWVQLKEQEVCLKQEEAKNFITRENLEARIEEA
LDSPKSYNWAVTKEGQVVRN

Human

MLRALSRLGAGTPCRPRAPLVLPARGRKTRHDPLAKSKIERNMPPAVDPAEFFVLMERY
QHYRQTVRALRMEFVSEVQRKVHEARAGVLAERKALKDAAEHRELMAWNQAENRRLHELRL
IARLRQEEREQEQRQALEQARKAEVQAWAQRKEREVLQLQEEVKNFITRENLEARVEAA
LDSRKYNWAITREGLVVRPQRRDS

Alignment

Mouse	MLRALNRLAQRPGDRPPTPLLLPVRGRKTRHDPPAKSKVGRVQTPPAVDPAEFFVLTERY
Rat	MLRALNRLAARPGGQPPTLLLLPVRGRKTRHDPPAKSKVGRVKMPPAVDPAELFVLTERY
Human	MLRALSRLGAGTPCRPRAPLVLPARGRKTRHDPLAKSKIERNMPPAVDPAEFFVLMERY
Mouse	GQYRETVRALRLEFTLDVRRKLHEARAGVLAERKAQQAITEHRELMAWNNDENRRMQELR
Rat	RQYRETVRALRREFTLEVRGKLHEARAGVLAERKAQEAIREHQELMAWNREENRRLQELR
Human	QHYRQTVRALRMEFVSEVQRKVHEARAGVLAERKALKDAAEHRELMAWNQAENRRLHELRL
Mouse	IARLQLEAQAQEVQKAEARQRAQEEQAWVQLKEQEVCLKQEEAKNFITRENLEARIEEA
Rat	IARLQLEAQAQELRQAEVQAQRAQEEQAWVQLKEQEVCLKQEEAKNFITRENLEARIEEA
Human	IARLRQEEREQEQRQALEQARKAEVQAWAQRKEREVLQLQEEVKNFITRENLEARVEAA
Mouse	LDSPKSYNWAVTKEGQVVRN
Rat	LDSPKSYNWAVTKEGQVVRN
Human	LDSRKYNWAITREGLVVRPQRRDS

Predicted deleted form in JP17

MLRALNRLAARPGGQPPTLLLLPVRGprprsrfsapfssqds

↑

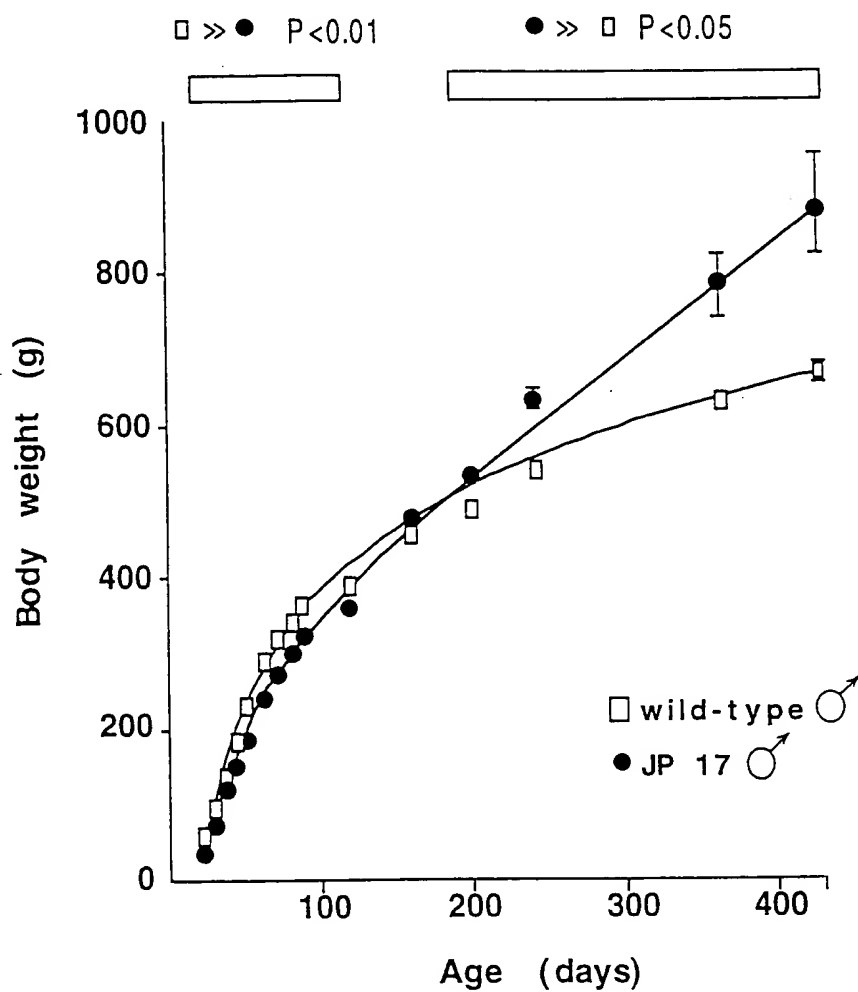


FIG. 7

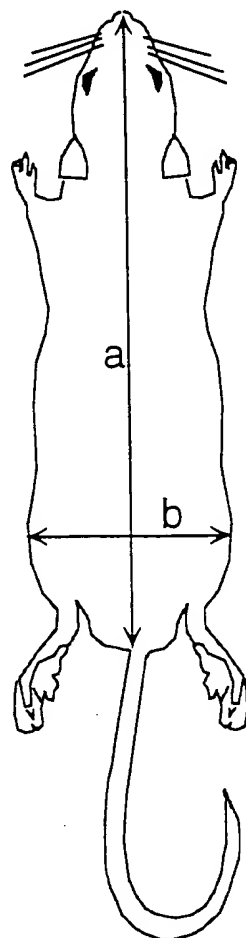
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Figure 1: Body weight (g) versus Age (days) for male and female JP17 and non-transgenic mice.

The graph displays two panels: the top panel for males (♂) and the bottom panel for females (♀). Each panel compares the body weight gain of JP17 mice (filled symbols) and non-transgenic mice (open symbols) over a 450-day period. Error bars represent standard deviation. Statistical significance is indicated by asterisks (*, **) and 'n.s.' for non-significant.

Sex	Genotype	Age (days)	Body weight (g)	Significance
Male (♂)	JP17	150	~470	n.s.
		200	~550	*
		425	~900	*
	non-transgenic	200	~490	
		350	~640	
		425	~680	
Female (♀)	JP17	150	~250	n.s.
		275	~330	**
		475	~450	**
	non-transgenic	275	~300	
		425	~380	
		475	~380	

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20 weeks

	non-transgenic	JP17 transgenic
a	260.33 ± 0.28	243.34 ± 0.13 ***
b	92.67 ± 0.29	115.14 ± 0.24 ***

52 weeks

	non-transgenic	JP17 transgenic
a	273.83 ± 0.28	261.0 ± 0.45 ns
b	113.83 ± 0.10	157.83 ± 0.61 ***

FIG. 9

body weight
body length
(g/cm)

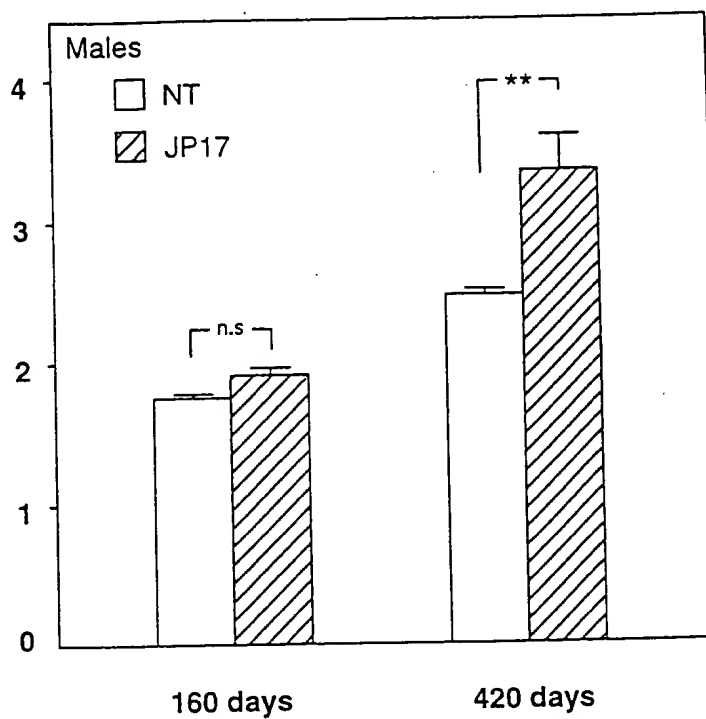


FIG. 10

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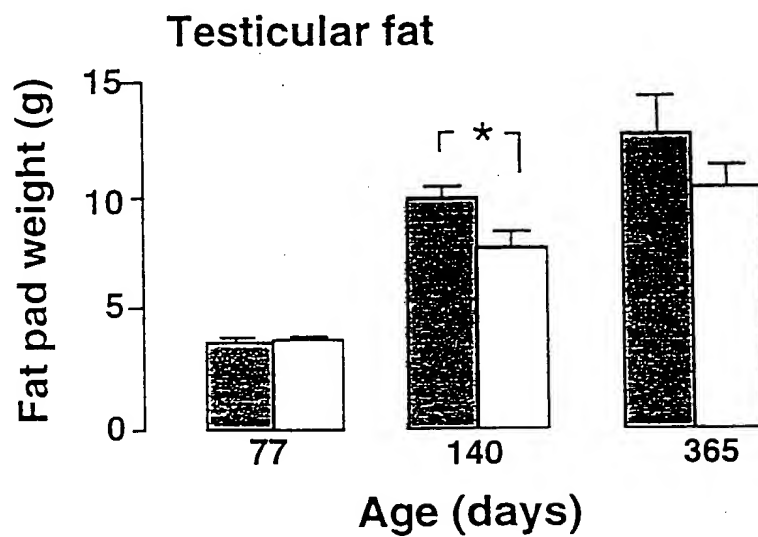
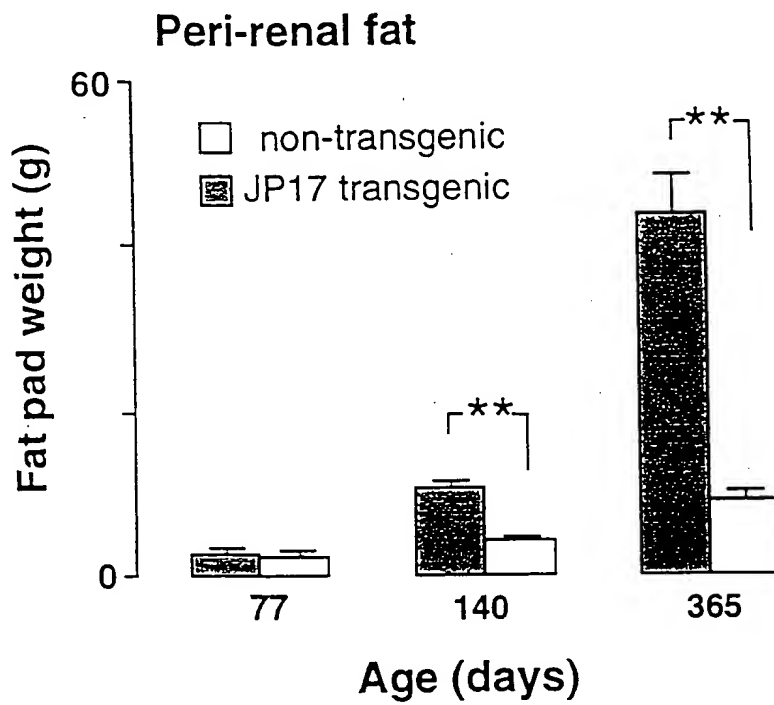


FIG. 11

	Cholesterol mg/dl	Triglyceride mg/dl	Glucose mg/dl	Insulin ng/ml	Leptin ng/ml	Corticosterone ng/ml
MALE TRANSGENIC	122.3 +/- 6.4	*295.6 +/- 28.7	114.7 +/- 4.2	1.94 +/- 0.89	*24.4 +/- 1.49	168.9 +/- 23.5
MALE NON- TRANSGENIC	129.9 +/- 9.3	178.9 +/- 23.5	121.0 +/- 3.9	2.8 +/- 1.93	9.51 +/- 2.14	113.9 +/- 20.3
FEMALE TRANSGENIC	94.9 +/- 5.9	224.2 +/- 52.3	126.3 +/- 3.3	2.51 +/- 0.64	*14.74 +/- 1.38	256.3 +/- 104.1
FEMALE NON- TRANSGENIC	100.2 +/- 8.0	195.5 +/- 34.5	135.4 +/- 6.7	2.54 +/- 2.32	4.58 +/- 0.47	349.3 +/- 123.7

FIG. 12

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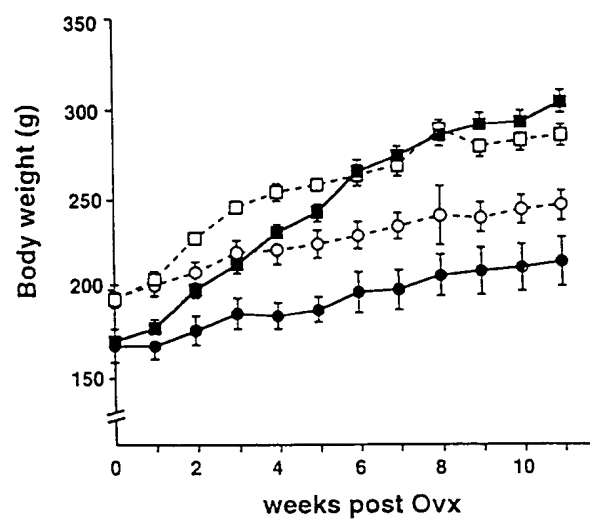


FIG 14

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